

U.S. Serial No. 10/098,529Docket No.: 740165-126**BEST AVAILABLE COPY****IN THE CLAIMS:**

1. (Currently amended) A folding-type mirror device for a vehicle, the mirror device comprising:
 - a support shaft including a base portion;
 - a case installed on the support shaft, the case including a support portion having an annular wall disposed around an outer periphery of the base portion of the support shaft, a bottom portion having sidewalls radially spaced apart from the support portion, and a bottom wall, and a plurality of reinforcing ribs integrally connecting an outer surface of the support portion annular wall with the sidewalls and bottom wall of the bottom portion; wherein said reinforcing ribs radially extend from said support portion annular wall to said sidewalls a distance substantially greater than a thickness of said annular wall; and
 - a mirror unit attached to the case and swingable around the support shaft by rotation of the support portion around the support shaft, for positioning at positions including a viewing position and a folded position, and
 - a motor base which is integrally mounted inside the case and includes a fitting portion fitted to a distal end portion of the support shaft, and an electric motor disposed on the motor base for swinging the case and mirror unit.
2. (Original) The mirror device of claim 1, further comprising a base which is mountable to a vehicle body and from which the support shaft stands.
3. (Cancelled)
4. (Original) The mirror device of claim 1, further comprising a positioning mechanism for holding the case and the mirror unit at either of the viewing position and the folded position.
5. (Cancelled)

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6. (Original) The mirror device of claim 1, wherein the mirror device is manually swingable.
7. (Withdrawn) An electrically powered folding mirror device for a vehicle, the mirror device comprising:
 - a support shaft including a base portion;
 - a case installed on the support shaft, the case including a fitting portion disposed around an outer periphery of the base portion of the support shaft;
 - a mirror unit attached to the case and swingable around the support shaft, by rotation of the fitting portion around the support shaft, for positioning at positions including a viewing position and a folded position;
 - a motor base attached inside the case;
 - an electric motor mounted to the motor base and including a motor output shaft which penetrates the motor base; and
 - a transmission mechanism provided inside the case, operationally connected to the motor output shaft, and including a worm gear connected with the motor output shaft so as to be movable in an axial direction of the motor output shaft but not rotatable relative to the motor output shaft, the transmission mechanism acting to swing the case and mirror unit when the motor is operated.
8. (Withdrawn) The mirror device of claim 7, further comprising a base which is mountable to a vehicle body and from which the support shaft stands.
9. (Withdrawn) The mirror device of claim 7, wherein the case includes an inner bottom portion rotatably supporting a lower end portion of the worm gear, and an upper end portion of the worm gear is rotatably supported by the motor base.
10. (Withdrawn) The mirror device of claim 7, further comprising a structure for blocking rotation of the motor base with respect to the case.

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11. (Withdrawn) The mirror device of claim 10, wherein the structure for blocking rotation includes at least one of: a combination of fitting holes provided in the case and corresponding control portions provided at the motor base; and a combination of blocking holes provided in the case and corresponding blocking projections provided at the motor base.

12. (Withdrawn) The mirror device of claim 7, wherein the transmission mechanism includes a helical gear rotatably supported inside the case, and the helical gear meshes with the worm gear.

13. (Withdrawn) The mirror device of claim 7, wherein the transmission mechanism includes a ring gear fixed to an outer peripheral surface of the support shaft.

14. (Withdrawn) A folding mirror device for a vehicle, the mirror device comprising:
a stand;
a support shaft extending from the stand and including a base portion;
a case installed on the support shaft, the case including a fitting portion disposed around an outer periphery of the base portion of the support shaft;
a mirror unit attached to the case, and swingable around the support shaft, by rotation of the fitting portion around the support shaft, for positioning at positions including a viewing position and a folded position; and
a positioning mechanism at an interface of the stand and the case, the positioning mechanism including a plurality of convexities formed at the case and a plurality of concavities formed at the stand, the convexities being insertable into the concavities, and each convexity and each concavity including one end portion and another end portion, wherein the one end portions of the convexities are surface-contactingly engageable with the one end portions of the concavities for holding the case and the mirror unit at one of the viewing position and the folded position, and the another end portions of the convexities are surface-contactingly engageable with the another end

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portions of the concavities for holding the case and the mirror unit at the other of the viewing position and the folded position.

15. (Withdrawn) The mirror device of claim 14, further comprising a base which is mountable to a vehicle body and which includes the stand.

16. (Withdrawn) The mirror device of claim 14, wherein the convexities and concavities are uniformly spaced along peripheral directions of a plurality of concentric circles having different diameters, the center of the concentric circles being disposed along the axis of the support shaft.

17. (Withdrawn) The mirror device of claim 14, wherein the one end portion and the another end portions substantially correspond to portions of helical surfaces whose central axes substantially coincide with the axis of the support shaft.

18. (Withdrawn) The mirror device of claim 14, further comprising an electric motor and a transmission mechanism, the motor being disposed in the case and including a motor output shaft, the transmission mechanism being disposed in the case and operationally connected to the motor output shaft for acting to swing the case and the mirror unit when the motor is operated.

19. (Withdrawn) A folding mirror device for a vehicle, the mirror device comprising:
a stand which is mountable to a vehicle body;
a support shaft projecting from the stand and including a base portion;
a case installed on the support shaft, the case including a fitting portion disposed around an outer periphery of the base portion of the support shaft;
a mirror unit attached to the case, and swingable around the support shaft, by rotation of the fitting portion around the support shaft, for positioning at positions including a view position and a folded position;
an electric motor disposed in the case and including a motor output shaft; and
a transmission mechanism provided inside the case and operationally connected to the motor output shaft for acting to swing the mirror and case unit when the motor is operated,

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the transmission mechanism including a gear plate rotatably mounted to the support shaft and including a clutch plate fixed to the support shaft, the clutch plate being capable of blocking relative rotation of the support shaft and the gear plate and capable of allowing relative rotation of the support shaft and the gear plate,

wherein one of the gear plate and the clutch plate includes insertion convexities and the other includes insertion concavities into which the insertion convexities are surface-contactingly fittable for the blocking of relative rotation.

20. (Withdrawn) The mirror device of claim 19, wherein the insertion convexities and insertion concavities each include at least one contact surface, the contact surfaces substantially corresponding to portions of predetermined helical surface whose central axes substantially coincide with the axis of the support shaft.

21. (Cancelled)

22. (Currently amended) The mirror device of claim 1, Claim 1, wherein said base includes a base wall opposite from said support portion, and at least one of said reinforcing ribs is integrally connected to said wall, wherein said ribs are disposed between an upper surface of said bottom wall and a gear operatively connected to an output of said electric motor.

23. (Currently amended) The mirror device of claim 1, Claim 1, wherein all of said ribs are of substantially the same thickness, and all of said ribs are spaced substantially uniformly around said support portion with respect to one another.

24. (Currently amended) The mirror device defined in claim 1, Claim 1, wherein said support portion and said base portion are substantially annular, and concentric with respect to one another, and the radial extent of said base portion is larger than the radial extent of said support portion, and wherein said reinforcing ribs radially extend from said support portion to said base portion, wherein each of said ribs has a same thickness along said radial extent, and all of said ribs have substantially the same thickness.

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25. (Currently amended) A folding-type mirror device for a vehicle, the mirror device comprising:

a support shaft including a base portion;

a case installed on the support shaft, the case including a support portion having an annular wall disposed around an outer periphery of the base portion of the support shaft, a bottom portion radially spaced apart from the support portion, and a plurality of reinforcing ribs which are disposed in the case for integrally connecting an outer surface of the annular wall of the support portion with the bottom portion wherein said reinforcing ribs radially extend from said support portion a distance substantially greater than a thickness of said annular wall; and

a mirror unit attached to the case and swingable around the support shaft, by rotation of the support portion around the support shaft, for positioning at positions including viewing a position and a folded position, and

a motor base including an electric motor for swinging the case and mirror unit, wherein said ribs axially extend parallel to said support shaft between an upper surface of a bottom wall of said support portion and a gear operatively connected to an output of said electric motor.

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